

Bubble Wand with Ornaments within a Container

This application is a continuation of U.S. Application 10/128,889, filed 4/23/02, now U.S. Patent 6,620,017.

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Field of the Inventions

This invention relates to ornaments attached to bubble wands within containers.

Background of the Inventions

Bubble wands have traditionally been relatively simple  
10 plastic wands with one or two rings attached. The wand is typically placed loose inside the bubble mixture container so that a child must put his or her fingers into a bubble mixture to retrieve the wand. Furthermore, a child can easily lose the wand once the wand is separated from the container. This  
15 frustrates the child, makes the bubble mixture less entertaining to use, and can frustrate a parent who must spend time looking for a lost wand. In addition, although the market for bubble wands is large, continued sales volume depends on innovative designs, inventions, and marketing techniques for bubble wands.  
20 Thus, new bubble wand toys are needed.

Summary

The devices and methods described below provide for mounting three-dimensional or two-dimensional art onto a bubble wand that is within a transparent container. The ornamental  
25 figure attached to the bubble wand can be used to provide amusement to children, as a means to make finding lost bubble

wands easier, as a method of inducing children to bathe longer, as an inducement for both children and adults to use more soap or more bubble mixture, as an advertising medium and tie-in for commercial exploitation of characters, as a promotional item for 5 various events, or merely as a novelty item. Note that the terms figure, figurine, ornamental figure, and ornamental figurine are used interchangeably herein.

#### Brief Description of The Drawings

Figure 1 shows a transparent container with a bubble wand shaft secured to the container cap, a three-dimensional ornamental figure attached to the shaft, and an ornamental bubble loop.

Figure 2 shows a transparent container with a bubble wand shaft secured to the container cap, where the shaft comprises an 15 ornamental figure.

Figure 3 shows a bubble wand disposed within a transparent container, a two-dimensional ornamental figure formed as a part of the bubble wand shaft, two bubble loops attached to the shaft, and a plurality of smaller bubble holes disposed in the 20 ornamental figure.

Figure 4 shows a transparent container with a pump dispenser, a suction tube secured to the container cap, a three-dimensional ornamental figure attached to the suction tube, and a bubble loop attached to the suction tube.

#### Detailed Description of the Inventions

Figure 1 shows a container 1, a container cap 2 releasably attached to an opening in the container, a shaft 3 attached to the container cap, a three-dimensional ornamental figure 4

releasably attached to the shaft 3, and an ornamental bubble loop 5 attached to the shaft. Together the shaft 3 or shafts and any bubble loops 5 comprise a bubble wand. The container 1 is a bottle, cylinder, or other container capable of holding  
5 soap or other bubble mixture. The container may be transparent to show the fluid inside, as well as anything else held inside the bottle. However, the container may be opaque and be made into any shape, such as a character, plant, animal, geometrical design, or other design. The container cap 2, which has an  
10 inner surface and an outer surface (or a top and a bottom), comprises a securing means for securing the contents of the bottle. The container cap may be a cap, screw-on lid, flip-top lid, snap-top lid, dispensing tip, or other securing mechanism.

The shaft 3, ornamental figure 4, and loop 5 comprise a  
15 wand assembly, which may be sized and proportioned to fit inside the bubble mixture container. Although the wand assembly of Figure 1 is attached to the container cap, the wand assembly may be loose within the container 1 or may be releasably or slidably attached to the container cap. For example, the container cap 2  
20 may be fitted with a receiving bore such that the wand assembly may be releasably or slidably attached to the receiving bore. A resilient seal would prevent leakage of the bubble mixture in the case of a slidable attachment.

The wand assembly components may be disposed about each  
25 other in different ways. The ornamental figure 4 may be releasably, fixedly, or slidably wrapped around the bubble wand 3 by a receiving bore, clip, glue, or other attachable or slidable means for attaching the figure to the wand. The shaft 3, loop 5, and the ornamental figure 4 may be separate from each  
30 other or from the container 1 or container cap 2. For example, the shaft and loop may be connected to each other (and together

be free floating in the container) and the ornamental figure may be free-floating in the container. The bubble loop 5 may be releasably, fixedly, or slidably attached to the bubble wand. In addition, the bubble loop 5 may be formed as part of the 5 ornamental figurine 4. For example, the bubble loop may be placed in the middle of the figurine or may be made a part of the figurine's face.

The various parts of the wand assembly in Figure 1 may be made in any form, such as a character, cartoon, action figure, 10 animal, plant, pattern, set of beads, shapes, letters, or other attractive representation in the form of an ornamental figure. For example, in Figure 1 the ornamental figure 4 is a whimsical representation of a dolphin and the bubble loop 5 is a whimsical representation of a heart. In another example, shown in Figure 15 2, the shaft 3 is integrally fashioned into an ornamental pattern of flowers or beads 6. The shaft is securely attached to the inside of the container cap 2 and the bubble loop 5 is annular. In another example, shown in Figure 3, a two-dimensional whimsical representation of a mouse 7 is formed as 20 part of the shaft 3, which is free-floating in the container 1 (not attached to the cap 2). The wand has two larger annular bubble loops 5 and a plurality of smaller bubble holes 8 placed in the ornamental mouse 7. Thus, one may blow larger bubbles 25 out of the two bubble loops 5 or may blow many smaller bubbles from the holes 8 in the ornamental mouse 7.

Figure 4 shows a transparent container 1 with a pump dispenser 9, a suction tube 10 releasably attached to a dispenser cap 2 that is itself releasably attached to an opening in the container, an ornamental figure 4 releasably attached to 30 the suction tube 10, and a bubble loop 5 attached to the suction tube 10. In the alternative, the suction tube 10 may be fixedly

or slidably attached to the container cap 2, the ornamental figure 4 may be fixedly or slidably attached to the suction tube 10, and the bubble loop 5 may be releasably or slidably attached to the suction tube 10.

5       A dispensing tip 11 may be a dropper dispenser for use with bubble producing materials such as Softsoap® or other liquid soap. The dispensing tip is in fluid communication with the pump and the pump is in fluid communication with the suction tube 10 such that bubble mixture may be hand pumped from within  
10 the container to the dispensing tip. The suction tube 10 typically extends downward to the bottom of the container 1, and may be extra long so that it must bend to fit into the container. The suction tube 10 is typically a round or cylindrical tube, although it might have many different cross  
15 sections and resemble different characters, shapes, animals, plants, patterns, things, or other ornamental designs.

As with the embodiment in Figure 1, the bubble loop 5 and ornamental figure 4 may comprise any ornamental shape, including two- or three-dimensional shapes, animals, plants, things, characters, geometric patterns, and other ornamental designs.  
20 Moreover, the materials of the wand assembly, pump, dispensing tip, cap, or bottle may be made from a material that glows in the dark.

Other versions of the bubble wand, figurine, and container  
25 are possible. For example, a separate ornamental figure and bubble loop may be attached to the top of the container cap in addition to the figure and bubble loop attached to the shaft. Such a bubble wand comprises a double-sided bubble wand. Thus, one can open the container cap, flip the container cap over, dip  
30 the top figurine into the bubble mixture, and use the cap figurine as a second bubble wand. In another embodiment,

multiple figures may be placed on a single bubble wand or suction tube, with each figure rotatably attached to a central bar on the wand by means of a small loop on the bottom of each figure and each figure stacked behind the other. In addition,  
5 each figure may have both a bubble loop at the end of each figure and multiple bubble holes disposed in each figure. In another embodiment multiple figurines may be disposed directly on the bubble wand or suction tube. In addition, a wide cap may also be placed on the side of the container, (or on the top of a  
10 wide container) thus allowing for wide figurines and for wide bubble loops that can make large bubbles.

The various embodiments of the bubble wand with ornaments within a container may be packaged and marked to indicate their use as a bubble-making toy. Where the bubble mixture is soap,  
15 the embodiments should be packaged and marked to indicate its dual use as a bubble-making toy and as soap. The packages are displayed or placed so that prospective purchasers will find them with other bubble-making toys and with other soaps. Alternatively, the packages are placed by themselves or near  
20 unrelated products in order to generate more interest in the product. In addition, retailers may place associated displays, indicating the intended use of the various embodiments in proximity to the product, or elsewhere as a promotional display.

Thus, while the preferred embodiments of the devices and  
25 methods have been described in reference to the environment in which they were developed, they are merely illustrative of the principles of the inventions. Other embodiments and configurations may be devised without departing from the spirit of the inventions and the scope of the appended claims.